

A PROCESS OF FORMING METAL SURFACES COMPATIBLE WITH A WIRE BONDING AND SEMICONDUCTOR INTEGRATED CIRCUITS MANUFACTURED BY THE PROCESS

Abstract of the Disclosure

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The present invention relates to the structure and process of forming metal surfaces on the bare metal interconnect of a semiconductor chip. The metal chip comprises metal interconnect formed on a semiconductor substrate and at least a portion of the metal interconnect is exposed to the environment. In one aspect of the invention, the process comprises applying a noble metal on the exposed portion of the metal interconnect and performing a chemical process that causes a layer of the noble metal to convert into a bondable layer compatible with a conventional wire bonding. The process also comprises bonding a metal wire to the bondable layer.

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